WHAT IS CLAIMED IS:

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- 1. A collection of particles comprising a multiple metal oxide having an average particle diameter less than about 500 nm wherein at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.
- 2. The collection of particles of claim 1 wherein the collection of particle have an average particle diameter less than about 100 nm.
 - 3. The collection of particles of claim 1 wherein the collection of particle have an average particle diameter less than about 50 nm.
 - 4. The collection of particles of claim 1 wherein at least about 95 percent of the particles have a diameter greater than about 60 percent of the average diameter and less than about 140 percent of the average diameter.
 - 5. The collection of particles of claim 1 wherein effectively no particles have a diameter greater than about four times the average diameter of the collection of particles.
- 25 6. The collection of particles of claim 1 wherein the multiple metal oxide comprises manganese.
 - 7. The collection of particles of claim 1 wherein the multiple metal oxide comprises lithium.
 - 8. The collection of particles of claim 1 wherein the multiple metal oxide comprises vanadium.
- 9. The collection of particles of claim 1 wherein the multiple metal oxide comprises crystalline particles.

- 10. The collection of particles of claim 1 wherein the multiple metal oxide comprises amorphous particles.
- 11. A collection of particles comprising a multiple metal oxide having an average particle diameter less than about 500 nm wherein effectively no particles have a diameter greater than about four times the average diameter of the collection of particles.
- 10 12. The collection of particles of claim 11 wherein the collection of particle have an average particle diameter less than about 100 nm.
- 13. The collection of particles of claim 11 wherein the collection of particle have an average particle diameter less than about 50 nm.
 - 14. The collection of particles of claim 11 wherein the multiple metal oxide comprises manganese.
 - 15. The collection of particles of claim 11 wherein the multiple metal oxide comprises lithium.

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- 16. The collection of particles of claim 11 wherein the 25 multiple metal oxide comprises vanadium.
 - 17. The collection of particles of claim 11 wherein the multiple metal oxide comprises crystalline particles.
- 30 18. The collection of particles of claim 11 wherein the multiple metal oxide comprises amorphous particles.
- 19. The collection of particles of claim 11 wherein effectively no particles have a diameter greater than about three times the average diameter of the collection of particles.

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20. The collection of particles of claim 11 wherein effectively no particles have a diameter greater than about two times the average diameter of the collection of particles.